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C.2.2.2 : BILL OF QUANTITIES

SECTION 1 PRELIMINARY AND GENERAL ITEMS

PART 0102 C1.2 GENERAL REQUIREMENTS AND PROVISIONS

Item	Clause	Description	Unit	Quantity	Rate	Amount
		Health and Safety				
1	C1.2.5.1	Preparation, submission, implementation, maintenance and updating of the Contract Specific Health and Safety Plan and Safety File in accordance with the Occupational Health and Safety Act, Construction Regulations and Contract Documentation	Lump sum	1		
2	C1.2.5.2	Implementation of Health and Safety Plan Implement and maintain the approved Contract Specific Health and Safety Plan, including all statutory compliance, monitoring, reporting, inspections and safety management requirements	months	4		
		Environmental Management				
3	C1.2.1.1	Monitor compliance with the Environmental Management Plan (EMP) and prepare and submit all environmental compliance reports, including environmental inspections, record keeping, corrective actions	months	4		
		Programming and Reporting				
4	C1.2.2.4	Submission of Full Contract Programme. Prepare, submit, update and maintain a detailed Contract Programme, including progress reporting, programme revisions and recovery programmes as required by the Contract.	Lump sum	1		
		Other Documentation				
5	C1.2.2.6	Prepare, compile and submit all reports, records and information required by the Contract Documentation and the Engineer, including local labour and socio-economic reporting	months	4		
		Stakeholder Management & Liaison (CLO)				
6	C1.2.4	Provide stakeholder management and liaison services, including community liaison, local labour coordination, stakeholder meetings, complaint management, record keeping and reporting for the duration of the Contract	months	4		

Part Continued on next page

Part Continued **PART 0102 C1.2 GENERAL REQUIREMENTS AND PROVISIONS**

Item	Clause	Description	Unit	Quantity	Rate	Amount
		Surveying and Setting				
7		Surveying and Setting Out of the Works. Provide all surveying and setting out required by the Engineer for the execution of the Works, including establishment and maintenance of benchmarks, setting out of lines and levels, survey control, checks and submission of survey records	PC Sum	30000	1.00	30,000.00
8		Handling Costs and Profit in respect of sub-item 1.0102.7 for Surveying and Setting Out of the Works	%	30000		
		As Builts Drawings				
9		Submission of As-Built Drawings by the Contractor. Prepare and submit complete as-built drawings and records for the Works as constructed, including all surveys, measurements, drafting, revisions and submissions required by the Contract	Lump sum	1		

TOTAL CARRIED TO C.2.2.3 : SUMMARY OF BILL OF QUANTITIES **R**

PART 0103 C1.3 CONTRACTOR'S SITE ESTABLISHMENT AND

Item	Clause	Description	Unit	Quantity	Rate	Amount
		The Contractor's General Obligations				
1	C1.3.1.1	Fixed obligations	Lump sum	1		
2	C1.3.1.3	Time-related obligations	months	4		

TOTAL CARRIED TO C.2.2.3 : SUMMARY OF BILL OF QUANTITIES **R**

SECTION 2 SITE CLEARANCE

PART 0106 C1.6 CLEARING AND GRUBBING

Item	Clause	Description	Unit	Quantity	Rate	Amount
		Clearing				
1	C1.6.1.1	Clear and grub the areas designated for the Works using machines and some hand labour where necessary, including removal and disposal of vegetation, rubbish, debris and other unsuitable material	m2	1200		

TOTAL CARRIED TO C.2.2.3 : SUMMARY OF BILL OF QUANTITIES **R**

SECTION 3 PROVING OF SERVICES / EXISTING LAYERWORKS

PART 0201 C2.1 GEN REQMENTS AND TRENCHING SERVICE

Item	Clause	Description	Unit	Quantity	Rate	Amount
		Proving and Relocation of Services				
1	C2.1.1.1	Contractor's obligation. Locate, identify, protect, support and where necessary relocate existing services affected by the Works, including liaison with service authorities and implementation of all measures required to prevent damage to services	Lump sum	1		

TOTAL CARRIED TO C.2.2.3 : SUMMARY OF BILL OF QUANTITIES **R**

SECTION 4 WATERMAINS

PART 023B C2.3B WET SERVICES - WATER MAINS

Item	Clause	Description	Unit	Quantity	Rate	Amount
		Rider Mains				
1	C2.3.21.1(a)	Supply, deliver, lay, joint, test, commission rider mains of the 100mm diameter, pipe material HDPE, pressure class PN16 and couplings, including excavation, bedding, laying, jointing, connection to the existing water main, installation of saddles, ferrules, valves, fittings, backfilling and reinstatement	m	100		

TOTAL CARRIED TO C.2.2.3 : SUMMARY OF BILL OF QUANTITIES **R**

SECTION 5 DRAINAGE

PART 0302 C3.2 CULVERTS

Item	Clause	Description	Unit	Quantity	Rate	Amount
		Excavation: **Pipes, Manholes, Inlets and Headwalls**				
1	C3.2.1.1(a)	Excavation for culvert structures for pipes: in all material situated within the following depth ranges below the surface level: (a) 0 m to 1,5 m	m3	30		
2	C3.2.1.1(b)	(b) Exceeding 1,5 m and up to 3,0 m	m3	300		
3	C3.2.2.1	Backfilling: Using the excavated material	m3	110		
		Backfilling: **Pipes, Manholes, Inlets and Headwalls**				
4	C3.2.2.2(a)	Backfilling: Using imported selected material: (a) From commercial sources (Using granular material) - G7 material or better	m3	60		
5	C3.2.2.2(a)	Backfilling: Using imported selected material:(a) From commercial source (Clean course River Sand)	m3	55		
		Concrete Pipes: Spigot and Socket Type				
6	C3.2.3.2	Concrete pipe culverts, Spigot and Socket: On Class B bedding (450mm diameter concrete pipe Class 100D)	m	120		
		Compaction				
7	C3.2.24.1	Compaction of bedding for inlets, outlets, manholes and catchpits: Preparation and compaction of in situ bedding material to 90 % of MDD (depth 150mm)	m3	55		
		Manholes and Inlets				
8	C3.2.16.2	Supply and construct 230 mm thick brickwork in engineering bricks and mortar, complete in accordance with the drawings and specifications, including jointing, bonding, cutting, building in pipes, and all labour, materials, plant and incidentals necessary to complete the brickwork manhole	m3	10		

Part Continued on next page

Part Continued **PART 0302 C3.2 CULVERTS**

Item	Clause	Description	Unit	Quantity	Rate	Amount
9	C3.2.18	Benching in manholes. Construct benching in manholes using cement mortar or concrete as specified, accurately shaped and finished to provide smooth flow channels and slopes towards the manhole channels, complete in accordance with the drawings and specifications, including all labour, materials, finishing and incidental work	m3	5		
10	C3.2.19.1	Supply, deliver and install approved manhole frames of the specified type and size, complete with bedding in mortar, setting to correct line and level, securing in position and all ancillary work required in accordance with the drawings and specifications (Refer to Standard Drawings No. 38571 & 38572)	no	4		
11	C3.2.19.4	Supply, deliver and install approved manhole covers of the specified type and size, complete with bedding in mortar, setting to correct line and level, securing in position and all ancillary work required in accordance with the drawings and specifications (Refer to Standard Drawings No. 38571 & 38572)	no	4		
12	C3.2.7.2	Cast in situ concrete and formwork: In complete in situ floor slabs for rectangular culverts, manholes and catchpits including formwork, joints and Class U2 surface finish (class of concrete indicated) (installed at a standard depth of 1,0 m)	m3	10		
13	C13.4.11	Transport, handle and install precast concrete members, support beams, inlet covers, frames and associated components in the positions shown on drawings, including off-loading, lifting, placing, alignment, bedding, jointing, fixing and all ancillary work necessary to complete the installation in accordance with the specifications	no	10		

Part Continued on next page

Part Continued **PART 0302 C3.2 CULVERTS**

Item	Clause	Description	Unit	Quantity	Rate	Amount
		Headwalls				
14	C13.4.9	Manufacture, supply, transport and install precast concrete headwalls for 450 mm diameter pipes in accordance with Standard Drawing No.38576, including casting, reinforcement, formwork, curing, lifting, transportation, excavation, bedding, positioning, jointing, backfilling and all labour, materials, plant and equipment necessary to complete the work to the specified line and level	no	2		
		Subsoil Pipes				
15	C3.1.9.1	Supply, deliver and install 110 mm diameter perforated UPVC pipes and fittings for subsoil drainage systems, complete with couplings, bedding, laying to line and level backfilling and all ancillary materials, labour, plant and equipment necessary to complete the installation in accordance with the drawings and specifications	m	150		
16	C3.1.11	Supply, deliver and install nonwoven needle-punched geotextile,Grade A4, in subsoil drainage systems and other specified locations,including preparation of the surface, trimming, overlap of joints,placing, fixing, protection during construction and all labour,materials, plant and equipment necessary to complete the work inaccordance with the drawings and specifications	m2	90		

TOTAL CARRIED TO C.2.2.3 : SUMMARY OF BILL OF QUANTITIES **R**

SECTION 6 BULK EARTHWORKS

PART 0402 C4.2 CUT MATERIALS

Item	Clause	Description	Unit	Quantity	Rate	Amount
		Excavation to Stockpile or Fill				
1	C4.2.3.1	Excavate material classified as soft excavation from cuttings, including breaking down, loading, hauling, depositing and stockpiling approved material for later use in the Works, complete in accordance with the drawings and specifications. The item shall include trimming, maintaining stockpiles, protection against erosion and contamination, and all labour, plant, equipment and incidentals required to complete the work	m3	10		
2	C4.2.9.1	Excavate, load, haul and dispose of material classified as soft excavation, overburden and unsuitable material to approved and authorised spoil sites including haulage, and all labour, plant, equipment and incidental operation	m3	670		
3	C1.7.1.1	Load approved material from stockpiles using mechanical plant and some hand labour where necessary, including stockpile management, breaking down of stockpiles, trimming, handling and loading onto haulage vehicles for transport to the place of use, complete in accordance with the specifications and as directed by the Engineer	m3	10		
		Breaking of Material by means of Mechanical Operations				
4	C4.2.11	Break down oversize material, hard rock and boulders using a 20t excavator or similar approved plant fitted with a hydraulic/mechanical hammer, including loosening, breaking, reducing to manageable sizes, loading, handling, stockpiling or disposal as directed, and all labour, plant, equipment and incidental work necessary to complete the operation in accordance with the specifications	m3	100		

TOTAL CARRIED TO C.2.2.3 : SUMMARY OF BILL OF QUANTITIES **R**

SECTION 7 KERBING

PART 0303 C3.3 CONCRETE KERBING AND CHANNELING

Item	Clause	Description	Unit	Quantity	Rate	Amount
		Kerbs and Channel/Fillet				
1	C3.3.2.1,	Supply, deliver and install precast Type B Fig6 Barrier Kerbs including excavation, bed preparation, 600 x 50 mm 25 MPa concrete bedding, jointing, alignment, haunching where required, backfilling, compaction and all labour, materials, plant and equipment necessary to complete the work in accordance with Standard Drawing 38577 and the specifications.	m	235		
2	C3.3.2.1,	Supply, deliver and install precast Fig12 Kerbs including excavation, bed preparation, 600 x 50 mm 25 MPa concrete bedding, jointing, alignment, haunching where required, backfilling, compaction and all labour, materials, plant and equipment necessary to complete the work in accordance with Standard Drawing 38577 and the specifications.	m	240		
3	C3.3.2.1,	Supply, deliver and install precast Fig6 Transition Kerbs including excavation, bed preparation, 600 x 50 mm 25 MPa concrete bedding, jointing, alignment, haunching where required, backfilling, compaction and all labour, materials, plant and equipment necessary to complete the work in accordance with Standard Drawing 38577 and the specifications	m	10		
4	C3.3.16	Break up, demolish, remove and dispose of existing kerbs, channels, combined kerb and channel units and associated concrete bedding, including excavation where necessary, loading, transporting and disposing of demolished material to an approved disposal site.	m3	15		

TOTAL CARRIED TO C.2.2.3 : SUMMARY OF BILL OF QUANTITIES **R**

SECTION 8 LAYERWORKS AND SURFACING

PART 0404 C4.4 COMMERCIAL MATERIALS

Item	Clause	Description	Unit	Quantity	Rate	Amount
		Import Layerworks - Roadworks				
1	C4.4.2.1(d)	Procure, load, haul, supply, deliver, spread, approved G4 pavement material obtained from commercial, private or other approved sources, complete in accordance with the specifications, drawings and the Engineer's requirements. The item shall include sourcing, royalties, screening, stockpiling, loading and transportation.	m3	150		
2	C4.4.2.1(g)	Procure, load, haul, supply, deliver, spread, approved G7 pavement material obtained from commercial, private or other approved sources, complete in accordance with the specifications, drawings and the Engineer's requirements. The item shall include sourcing, royalties, screening, stockpiling, loading and transportation.	m3	200		
		Import Layerworks - Sidewalks				
3	C4.4.2.1(e)	Procure, load, haul, supply, deliver, spread, approved G4 pavement material obtained from commercial, private or other approved sources, complete in accordance with the specifications, drawings and the Engineer's requirements. The item shall include sourcing, royalties, screening, stockpiling, loading, transport, placing.	m3	45		

TOTAL CARRIED TO C.2.2.3 : SUMMARY OF BILL OF QUANTITIES **R**

PART 0501 C5.1 ROADBED

Item	Clause	Description	Unit	Quantity	Rate	Amount
		Roadbed Construction				
1	C5.1.1.2	Prepare, process, shape, moisture condition and compact the roadbed to 95% of Modified AASHTO Maximum Dry Density (MDD), including scarifying where required, addition of water, mixing, trimming to line and level, compaction, finishing and all labour, plant, equipment and incidentals necessary to complete the work	m3	150		
2	C5.1.4.2(a)	Removal of unsuitable material to spoil (Undercut): In layer thicknesses exceeding 200 mm (b) Unsuitable material	m3	100		

Part Continued on next page

Part Continued **PART 0501 C5.1 ROADBED**

Item	Clause	Description	Unit	Quantity	Rate	Amount
3	C5.1.5.1	Loosen and process hard material in the roadbed by ripping, including shaping and compaction to specification	m3	150		

TOTAL CARRIED TO C.2.2.3 : SUMMARY OF BILL OF QUANTITIES **R**

PART 0502 C5.2 FILL

Item	Clause	Description	Unit	Quantity	Rate	Amount
		Fill Construction				
1	C5.2.2.2(b)	Place, spread, process, and compact coarse fill material in layers exceeding 200 mm compacted thickness to 95% of Modified AASHTO Maximum Dry Density (MDD), including shaping, trimming, watering, compaction, testing and all labour, plant, equipment and incidental work necessary to complete the fill construction	m3	10		

TOTAL CARRIED TO C.2.2.3 : SUMMARY OF BILL OF QUANTITIES **R**

PART 0503 C5.3 ROAD PAVEMENT LAYERS

Item	Clause	Description	Unit	Quantity	Rate	Amount
		Processing and Compaction - Roadworks				
1	C5.3.2.1 (c)	Place, spread, process, shape, compact approved G7 material in the upper selected subgrade layer to a compacted thickness of 150 mm and a density of 95% of Modified AASHTO Maximum Dry Density (MDD), including hauling from the source, watering, trimming to line and level, testing and all labour, plant, equipment and incidental work necessary to complete the work	m3	200		
2	C5.3.2.1(k)	Place, spread, process, shape, compact approved G4 material in the upper selected subgrade layer to a compacted thickness of 150 mm and a density of 95% of Modified AASHTO Maximum Dry Density (MDD), including hauling from the source, watering, trimming to line and level, testing and all labour, plant, equipment and incidental work necessary to complete the work	m3	150		

Part Continued on next page

Part Continued **PART 0503 C5.3 ROAD PAVEMENT LAYERS**

Item	Clause	Description	Unit	Quantity	Rate	Amount
		Processing and Compaction - Sidewalks				
3	C5.3.2.1(m)	Place, spread, process, shape, compact approved G4 material in the upper selected subgrade layer to a compacted thickness of 150 mm and a density of 95% of Modified AASHTO Maximum Dry Density (MDD), including hauling from the source, watering, trimming to line and level, testing and all labour, plant, equipment and incidental work necessary to complete the work	m3	45		

TOTAL CARRIED TO C.2.2.3 : SUMMARY OF BILL OF QUANTITIES **R**

PART 0801 C8.1 PRIME COAT

Item	Clause	Description	Unit	Quantity	Rate	Amount
		Prime Coat				
1	C8.1.1.2	Supply and apply MC-30 cut-back bitumen prime coat uniformly to the prepared granular pavement surface at a nominal application rate of 0.6 litres per square metre, including surface preparation, cleaning, provision of bituminous material, heating where required, spraying, protection of the primed surface and all labour, plant, equipment and incidentals necessary to complete	m2	225		

TOTAL CARRIED TO C.2.2.3 : SUMMARY OF BILL OF QUANTITIES **R**

PART 0901 C9.1 ASPHALT LAYERS

Item	Clause	Description	Unit	Quantity	Rate	Amount
		Sidewalk **Asphalt**				
1	C9.1.5.1(a)	Supply, produce, transport and lay continuously graded stone skeletal asphalt mix (SA-S10) in a compacted layer thickness of 25 mm, including preparation of the underlying surface, mixing, delivery, spreading, paving, rolling, compaction, joints, finishing and all labour, materials, plant and equipment required to complete the work	t	15		

Part Continued on next page

Part Continued **PART 0901 C9.1 ASPHALT LAYERS**

Item	Clause	Description	Unit	Quantity	Rate	Amount
		Tack Coat				
2	C9.1.3.1	Supply and apply stable-grade 30% net bitumen emulsion bond coat to the prepared pavement surface at a nominal application rate of 0.3 litres per square metre, including surface cleaning and preparation, provision of all materials, spraying, protection of the treated surface and all labour, plant, equipment and incidentals necessary to complete	m2	225		

TOTAL CARRIED TO C.2.2.3 : SUMMARY OF BILL OF QUANTITIES **R**

PART 1304 C13.4 CONCRETE

Item	Clause	Description	Unit	Quantity	Rate	Amount
		Multi-Cell and Concrete				
1		Supply, cut, place and secure 150 mm deep Kaytech Multi-Cell or approved equivalent in accordance with the manufacturer's specifications and the drawings, including preparation of the foundation, anchoring, joining of panels, cutting to suit the specified road design width and all labour, plant, equipment and incidentals required to complete the installationn	m2	720		
2	C13.3.3	Labour enhanced cast in situ concrete of 20Mpa (19mm stone) - Road : Commercially- Sourced concrete (Rate to include the supply, lay and vibrating of the concrete)	m3	150		
3	C4.3.4.1(a)	Saw-cutting existing materials within the following average depth ranges: Asphalt: (a) Up to 50 mm	m	20		
		Driveways / Vehicular Scoops				
4	C13.3.3	Labour enhanced cast in situ concrete of grade 20/13 - Vehicular Scoops : Commercially- Sourced concrete (Rate to include the supply, lay and vibrating of the concrete)	m3	6		

TOTAL CARRIED TO C.2.2.3 : SUMMARY OF BILL OF QUANTITIES **R**

SECTION 9 RETAINING WALLS AND FENCING

PART 1102 C11.2 NON-STRUCTURAL GABIONS

Item	Clause	Description	Unit	Quantity	Rate	Amount
		Gabion Retaining Wall				
1	C11.2.1.1(a)	Excavate all classes of material within a depth range of 0 m to 1.5 m below the existing ground level, including loosening, loading, hauling, temporary stockpiling or disposal, trimming of excavation surfaces, keeping excavations free of water and all labour, plant, equipment and incidental work necessary to complete the excavation	m3	100		
2	C11.2.2	Prepare the founding surface for gabion boxes, including clearing, grubbing, trimming, excavation of irregularities, removal of unsuitable material, shaping, levelling and compaction of the foundation to the specified lines, levels and grades, complete	m2	50		
3	C11.2.4	Supply, deliver and install Grade 4 Bidim non-woven geotextile, including surface preparation, cutting, overlapping, placing, securing, protection during construction and all labour, materials, plant and equipment necessary to complete the work	m2	140		
4	C11.2.3.2	Polimac and Galfan gabion boxes (1m x 1m x 1m) - Rock Unweathered and solid without flaking evident. Baskets to be handpacked in 1/3 height layers - Baskets to be retensioned per lift. Inclusive of baskets frames if required to maintain line and level without bulging.	m3	80		
5	C13.3.3	Labour enhanced cast in situ concrete of 15Mpa blinding (50mm) - Gabion Foundation : Commercially- Sourced concrete (Rate to include the supply, lay, shuttering and vibrating of the concrete)	m3	5		

TOTAL CARRIED TO C.2.2.3 : SUMMARY OF BILL OF QUANTITIES **R**

PART 1105 C11.5 FENCING

Item	Clause	Description	Unit	Quantity	Rate	Amount
		Palisade Fence				
1	C11.5.4.1(d)	Carefully dismantle and remove existing palisade security fencing, including pales, pails, beams, posts, foundations, fasteners, brackets and all associated components, complete with excavation around posts where required, loading, transport, stockpiling for reuse	m	50		
2		Carefully re-erect existing or supplied 2.4 m high concrete palisade fencing, including pales, rails, posts, brackets, fasteners, realignment, plumbing, fixing, barbed wire, reinstatement of damaged components, and all labour, materials, plant and equipment necessary to complete the fence	m	25		
3		Carefully erect new supplied 2.4 m high concrete palisade fencing, including pales, rails, posts, brackets, fasteners, realignment, plumbing, fixing, barbed wire, reinstatement of damaged components, and all labour, materials, plant and equipment necessary to complete the fence	m	25		
4	C13.3.3	Labour enhanced cast in situ concrete of 20Mpa (19mm stone) - Palisade Foundation : Commercially- Sourced concrete (Rate to include the supply, lay, shuttering and vibrating of the concrete) 450x450x600 Foundation	m3	5		

TOTAL CARRIED TO C.2.2.3 : SUMMARY OF BILL OF QUANTITIES **R**

C.2.2.3 : SUMMARY OF BILL OF QUANTITIES

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0801	C8.1 PRIME COAT	R	
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1304	C13.4 CONCRETE	R	
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1105	C11.5 FENCING	R	

SUB TOTAL	R
ADD VAT (15%) - (only if a registered VAT Vendor)	R
TOTAL CARRIED TO FORM OF OFFER AND ACCEPTANCE (C.1.1)	R